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PN - JP2001177574 A 20010629  
 PD - 2001-06-29  
 PR - JP19990361712 19991220  
 OPD - 1999-12-20  
 TI - TRANSMISSION CONTROLLER IN PACKET EXCHANGE NETWORK  
 IN - ITO YOSHIHIRO; ASAMI TORU; ISHIKURA MASAMI  
 PA - KDDI CORP  
 IC - H04L12/56 ; H04L29/06

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TI - Transmission control device in packet switching network, computes weight value of number of packets assigned to each logic connection based on which number of packets assigned to each logic connection is controlled

PR - JP19990361712 19991220

PN - JP2001177574 A 20010629 DW200152 H04L12/56 007pp

PA - (DAIN-N) DAINI DENDEN KK

IC - H04L12/56 ;H04L29/06

AB - JP2001177574 NOVELTY - An average packet length calculator ( 20 ) computes mean value of packet length for each logic connection, based on packet length of partial packet. A calculator ( 30 ) computes weight value of number of packets assigned to each logic connection, based on reservation bandwidth. Based on weight value, a transmission controller controls number of packets assigned to each logic connection.

- USE - In packet switching network.
- ADVANTAGE - The packets of required bandwidth are transmitted correctly to each user terminal without increasing the burden of process group. The number of packets per unit reservation bandwidth increases based on average packet length and reservation bandwidth capital.
- DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of transmission control device used in packet switching network. (Drawing includes non-English language text).
- Average packet length calculation device 20
- Weight value calculation unit 30
- (Dwg. 1/4)

OPD - 1999-12-20

AN - 2001-480574 [52]

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AB - PROBLEM TO BE SOLVED: To transmit the packets of quantity, which precisely reflect reservation band width, to respective user terminals without increasing the load of a processing system.

- SOLUTION: An almost average packet length operation part 20 which easily obtains the average value of packet lengths based on the packet length of a part of packets for respective logic

connections  $J_a$ ,  $J_b$  and  $J_c$  established between terminals, a weight value operation part 30 operating the weight values  $W_a(t)$ ,  $W_b(t)$  and  $W_c(t)$  of the number of packets allocated to the logic connections based on almost average packet lengths  $f_a(t)$ ,  $f_b(t)$  and  $f_c(t)$ , which are easily obtained for the respective logic connections, and the reservation bands  $W_a$ ,  $W_b$  and  $W_c$  of the logic connections and a scheduler 103 controlling the number of packets allocated to the logic connections based on the weight value of the operated number of packets are included.

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